Abstract

A microplate is described that has a surface with an enhanced lubricious property which makes it easier to remove the microplate from a thermocycler. Basically, the microplate has a frame which includes an array of wells formed therein that are made from a thermoplastic material (e.g. polypropylene) mixed with a non-toxic surface active material (e.g., surfactant, stearyl alcohol). The non-toxic surface active material functions to enhance the lubricity of the surface of the microplate which makes it easier to remove the microplate from the thermocycler. In addition, the non-toxic surface active material within the microplate also makes it easier to remove a newly molded microplate from a mold cavity in an injection molding machine. Also described herein are details about methods for making and using such microplates.